

REMARKS

Applicants respectfully request reconsideration of the present application in view of the reasons that follow.

A detailed listing of all claims that are, or were, in the application, irrespective of whether the claim(s) remain under examination in the application, is presented, with an appropriate defined status identifier. In view of the remarks which follow, Claims 1-30 are now pending in this application.

In paragraph 2 of the Office Action, the Examiner rejected Claims 12, 13, 17-21, 23, 25, 27, 28 and 30 under 35 U.S.C. §103(a) as being unpatentable over U.S. Patent No. 5,333,617 to Hafner (hereinafter Hafner) in view of U.S. Patent No. 6,567,703 to Thompson et al. (hereinafter Thompson et al.) The Examiner stated that “Thompson et al. teach telemetry signal optimization using a telemetry module (50) with an electronic control chip (54) having the functionality to detect impedance of the antenna and to provide dynamic impedance matching for the purpose of creating a clear responsive signal (col. 8 @ 38 – col. 9 @ 7).” Applicants respectfully traverse the rejection.

Thompson et al., in the section cited by the Examiner, teach that “mutually coupled inductors, in the form of transformers, can be used as baluns to drive balanced circuits and also to provide direct and broadband impedance transformations. The transformer function could be used for driving diode bridges in balanced mixers and impedance matching from 50 ohm unbalanced impedances (i.e. antennas) to the higher, balanced impedances present in low current RF ICs.” Applicants submit that a transformer function that can be used for impedance matching is not an impedance detector and further is not a dynamic impedance matching circuit.

Claim 12 recites a “telemetry unit including a circuit that monitors an impedance of the antenna, and adjusts a dynamic impedance matching circuit ...” Claim 27 recites “automatically adjusting a dynamic impedance matching circuit coupled to the antenna to compensate for changes in an impedance of the antenna.” There is no teaching or suggestion in Thompson et al. that an impedance is detected or that the impedance matching is dynamic

impedance matching. Reconsideration and withdrawal of the rejection of independent Claims 12 and 27 is respectfully requested.

Claims 13-26 depend from Claim 12 and include all of the limitations thereof. Claims 28-30 depend from Claim 27 and include all of the limitations thereof. Accordingly, these claims are allowable for at least the same reasons as independent Claims 12 and 27. Reconsideration and withdrawal of the rejection of Claims 13-26 and 28-30 is respectfully requested.

In paragraph 3 of the Office Action, the Examiner rejected Claims 1-7, 9 and 26 under 35 U.S.C. §103(a) as being unpatentable over Hafner in view of Thompspon et al. in further view of U.S. Patent No. 3,631,851 to Heson (hereinafter Heson). The Examiner relies on Thompson et al. to show an impedance detector and dynamic impedance matching circuit as described above. Accordingly, Claim 1 is allowable for at least the reasons discussed above with reference to Claims 12 and 27. Reconsideration and withdrawal of the rejection of Claim 1 is respectfully requested.

Claims 2-11 depend from Claim 1 and include all of the limitations thereof. Accordingly, these claims are allowable for at least the same reasons as independent Claim 1. Reconsideration and withdrawal of the rejection of Claims 2-11 is respectfully requested.

Applicants believe that the present application is now in condition for allowance. Favorable reconsideration of the application as amended is respectfully requested.

The Examiner is invited to contact the undersigned by telephone if it is felt that a telephone interview would advance the prosecution of the present application.

The Commissioner is hereby authorized to charge any additional fees which may be required regarding this application under 37 C.F.R. §§ 1.16-1.17, or credit any overpayment, to Deposit Account No. 06-1447. Should no proper payment be enclosed herewith, as by a check being in the wrong amount, unsigned, post-dated, otherwise improper or informal or even entirely missing, the Commissioner is authorized to charge the unpaid amount to Deposit Account No. 06-1447. If any extensions of time are needed for timely acceptance of

papers submitted herewith, Applicants hereby petition for such extension under 37 C.F.R.
§1.136 and authorizes payment of any such extensions fees to Deposit Account No. 06-1447.

Respectfully submitted,

Date 8/10/03

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